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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/044,722DATE: 02/11/2002  
TIME: 09:55:54Input Set : A:\PTO.VSK.txt  
Output Set: N:\CRF3\02112002\J044722.raw

ENTERED

3 <110> APPLICANT: DiCICCO-BLOOM, Emanuel  
 4 NICOT, Arnaud  
 5 LU, Nairu  
 6 SUH, Junghyup  
 8 <120> TITLE OF INVENTION: Pituitary adenylate cyclase-activating polypeptide (PACAP)  
 is an anti-  
 9 mitogenic signal for selected neuronal precursors in vivo  
 11 <130> FILE REFERENCE: 270/175  
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/044,722  
 14 <141> CURRENT FILING DATE: 2002-01-11  
 16 <160> NUMBER OF SEQ ID NOS: 8  
 18 <170> SOFTWARE: PatentIn version 3.1  
 20 <210> SEQ ID NO: 1  
 21 <211> LENGTH: 114  
 22 <212> TYPE: DNA  
 23 <213> ORGANISM: Homo sapiens  
 25 <400> SEQUENCE: 1  
 26 cactcgacggatcttacggacagctaccggccgtaccggaaacaaatggctgtcaag 60  
 28 aaataacttgcggccgtcctaggaaagaggataaaacaaaggttaaaaa caaa 114  
 31 <210> SEQ ID NO: 2  
 32 <211> LENGTH: 38  
 33 <212> TYPE: PRT  
 34 <213> ORGANISM: Homo sapiens  
 36 <400> SEQUENCE: 2  
 38 His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
 39 1 5 10 15  
 42 Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu Gly Lys Arg Tyr Lys  
 43 20 25 30  
 46 Gln Arg Val Lys Asn Lys  
 47 35  
 50 <210> SEQ ID NO: 3  
 51 <211> LENGTH: 525  
 52 <212> TYPE: PRT  
 53 <213> ORGANISM: Homo sapiens  
 55 <400> SEQUENCE: 3  
 57 Met Ala Gly Val Val His Val Ser Leu Ala Ala His Cys Gly Ala Cys  
 58 1 5 10 15  
 61 Pro Trp Gly Arg Gly Arg Leu Arg Lys Gly Arg Ala Ala Cys Lys Ser  
 62 20 25 30  
 65 Ala Ala Gln Arg His Ile Gly Ala Asp Leu Pro Leu Leu Ser Val Gly  
 66 35 40 45  
 69 Gly Gln Trp Cys Trp Pro Arg Ser Val Met Ala Gly Val Val His Val  
 70 50 55 60  
 73 Ser Leu Ala Ala Leu Leu Leu Pro Met Ala Pro Ala Met His Ser

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74	65	70	75	80
77	Asp Cys Ile Phe Lys Lys Glu Gln Ala Met Cys Leu Glu Lys Ile Gln			
78		85	90	95
81	Arg Ala Asn Glu Leu Met Gly Phe Asn Asp Ser Ser Pro Gly Cys Pro			
82		100	105	110
85	Gly Met Trp Asp Asn Ile Thr Cys Trp Lys Pro Ala His Val Gly Glu			
86		115	120	125
89	Met Val Leu Val Ser Cys Pro Glu Leu Phe Arg Ile Phe Asn Pro Asp			
90		130	135	140
93	Gln Val Trp Glu Thr Glu Thr Ile Gly Glu Ser Asp Phe Gly Asp Ser			
94		145	150	155
97	Asn Ser Leu Asp Leu Ser Asp Met Gly Val Val Ser Arg Asn Cys Thr			
98		165	170	175
101	Glu Asp Gly Trp Ser Glu Pro Phe Pro His Tyr Phe Asp Ala Cys Gly			
102		180	185	190
105	Phe Asp Glu Tyr Glu Ser Glu Thr Gly Asp Gln Asp Tyr Tyr Tyr Leu			
106		195	200	205
109	Ser Val Lys Ala Leu Tyr Thr Val Gly Tyr Ser Thr Ser Leu Val Thr			
110		210	215	220
113	Leu Thr Thr Ala Met Val Ile Leu Cys Arg Phe Arg Lys Leu His Cys			
114		225	230	235
117	240			
118	Thr Arg Asn Phe Ile His Met Asn Leu Phe Val Ser Phe Met Leu Arg			
121		245	250	255
122	Ala Ile Ser Val Phe Ile Lys Asp Trp Ile Leu Tyr Ala Glu Gln Asp			
125		260	265	270
126	Ser Asn His Cys Phe Ile Ser Thr Val Glu Cys Lys Ala Val Met Val			
129		275	280	285
130	Phe Phe His Tyr Cys Val Val Ser Asn Tyr Phe Trp Leu Phe Ile Glu			
133		290	295	300
134	Gly Leu Tyr Leu Phe Thr Leu Leu Val Glu Thr Phe Phe Pro Glu Arg			
137		305	310	315
138	320			
141	Arg Tyr Phe Tyr Trp Tyr Thr Ile Ile Gly Trp Gly Thr Pro Thr Val			
142		325	330	335
145	Cys Val Thr Val Trp Ala Thr Leu Arg Leu Tyr Phe Asp Asp Thr Gly			
146		340	345	350
149	355			
150	Cys Trp Asp Met Asn Asp Ser Thr Ala Leu Trp Trp Val Ile Lys Gly			
153		360	365	
154	Ile Val Ile Leu Val Gln Lys Leu Gln Ser Pro Asp Met Gly Gly Asn			
157		370	375	380
158	385			
161	Glu Ser Ser Ile Tyr Leu Arg Leu Ala Arg Ser Thr Leu Leu Leu Ile			
162		390	395	400
165	405			
166	410			
169	Pro Leu Phe Gly Ile His Tyr Thr Val Phe Ala Phe Ser Pro Glu Asn			
170		420	425	430
170	Val Ser Lys Arg Glu Arg Leu Val Phe Glu Leu Gly Leu Gly Ser Phe			
170		435	440	445
170	Gln Gly Phe Val Val Ala Val Leu Tyr Cys Phe Leu Asn Gly Glu Val			
170		450	455	460

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173 Gln Ala Glu Ile Lys Arg Lys Trp Arg Ser Trp Lys Val Asn Arg Tyr  
174 465 470 475 480  
177 Phe Ala Val Asp Phe Lys His Arg His Pro Ser Leu Ala Ser Ser Gly  
178 485 490 495  
181 Val Asn Gly Gly Thr Gln Leu Ser Ile Leu Ser Lys Ser Ser Ser Gln  
182 500 505 510  
185 Ile Arg Met Ser Gly Leu Pro Ala Asp Asn Leu Ala Thr  
186 515 520 525  
189 <210> SEQ ID NO: 4  
190 <211> LENGTH: 33  
191 <212> TYPE: PRT  
192 <213> ORGANISM: Artificial sequence  
194 <220> FEATURE:  
195 <223> OTHER INFORMATION: PACAP with first 5 amino acids truncated  
197 <400> SEQUENCE: 4  
199 Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln Met Ala Val Lys Lys  
200 1 5 10 15  
203 Tyr Leu Ala Ala Val Leu Gly Lys Arg Tyr Lys Gln Arg Val Lys Asn  
204 20 25 30  
207 Lys  
211 <210> SEQ ID NO: 5  
212 <211> LENGTH: 44  
213 <212> TYPE: PRT  
214 <213> ORGANISM: Artificial Sequence  
216 <220> FEATURE:  
217 <223> OTHER INFORMATION: Sand fly - truncation of SEQ.ID.NO.6 Maxadilan  
219 <400> SEQUENCE: 5  
221 Cys Asp Ala Thr Cys Gln Phe Arg Lys Ala Ile Asp Asp Cys Gln Lys  
222 1 5 10 15  
225 Gln Ala His His Ser Asn Val Pro Gly Asn Ser Val Phe Lys Glu Cys  
226 20 25 30  
229 Met Lys Gln Lys Lys Lys Glu Phe Lys Ala Gly Lys  
230 35 40  
233 <210> SEQ ID NO: 6  
234 <211> LENGTH: 61  
235 <212> TYPE: PRT  
236 <213> ORGANISM: Sand fly  
238 <400> SEQUENCE: 6  
240 Cys Asp Ala Thr Cys Gln Phe Arg Lys Ala Ile Asp Asp Cys Gln Lys  
241 1 5 10 15  
244 Gln Ala His His Ser Asn Val Leu Gln Thr Ser Val Gln Thr Thr Ala  
245 20 25 30  
248 Thr Phe Thr Ser Met Asp Thr Ser Gln Leu Pro Gly Asn Ser Val Phe  
249 35 40 45  
252 Lys Glu Cys Met Lys Gln Lys Lys Lys Glu Phe Lys Ala  
253 50 55 60  
256 <210> SEQ ID NO: 7  
257 <211> LENGTH: 27  
258 <212> TYPE: PRT

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259 <213> ORGANISM: Homo sapiens  
261 <400> SEQUENCE: 7  
263 His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
264 1 5 10 15  
267 Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu  
268 20 25  
271 <210> SEQ ID NO: 8  
272 <211> LENGTH: 28  
273 <212> TYPE: PRT  
274 <213> ORGANISM: Homo sapiens  
276 <400> SEQUENCE: 8  
278 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
279 1 5 10 15  
282 Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Asn  
283 20 25

VERIFICATION SUMMARY  
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L:13 M:270 C: Current Application Number differs, Replaced Current Application Number